

PATENT
Docket No. 5634.140

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: John C. Harvey and James W.
Cuddihy

Serial No.: 08/447,447

Filing Date: May 23, 1995

For: Signal Processing Apparatus and
Methods

Group Art Unit: 2602

Examiner:

Assistant Commissioner of Patents
Washington D.C. 20231

RECEIVED
GROUP 260
95 DEC 11 PM 8:51

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56(a) and in conformance with the procedures of 37 C.F.R. §§ 1.97-98 and M.P.E.P. § 609, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449.

The above-referenced application claims priority under 35 U.S.C. § 120 of the following applications:

| <u>Serial No.</u> | <u>Filing Date</u> | <u>Patent No.</u> |
|-------------------|--------------------|-------------------|
| 08/113,329 | August 30, 1993 | Pending |
| 08/056,501 | May 3, 1993 | 5,335,277 |
| 07/849,226 | March 10, 1992 | 5,233,654 |
| 07/588,126 | September 25, 1990 | 5,109,414 |
| 07/096,096 | September 11, 1987 | 4,965,825 |

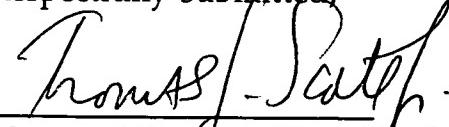
ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /CP/

Applicants believe that all references cited on the attached PTO 1449 form were cited by or submitted to the PTO in one or more of the case cited above or in U.S. Patent Application Serial No. 06/829,531, filed February 15, 1986 now U.S. Patent No. 4,704,725, U.S. Patent Application Serial No. 06/317,510, filed November 3, 1981 now U.S. Patent No. 4,694,490 and co-pending U.S. Patent Application Serial No. 08/448,143, filed May 23, 1995. Therefore, no copies of the listed references are provided herewith. Additionally, references believed to be dated in the period from November 3, 1981 through September 11, 1987 are included in the present IDS as this application only claims priority to the September 11, 1987 filing date. It is respectfully requested that the information above be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

CERTIFICATION AND/OR FEE

Since this IDS is being filed pursuant to 37 C.F.R. § 1.97(b) before the later of three months after the filing date of the above-referenced application or the date of receipt of the first Office action on the merits, no certification or fee is required.

Respectfully submitted,



Thomas J. Scott, Jr. (Reg. No. 27,836)

Dated: December 5, 1995

HOWREY & SIMON
1299 Pennsylvania Avenue, N.W.
Washington, D.C. 20004-2402
(202) 783-0800 (telephone)
(202) 383-6610 (telecopier)

PATENTS
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :
John C. Harvey and James W. Cuddihy : Examiner:
Serial No. 08/447,447 : Group Unit: 2602
Filed 23-May-95 : Atty Dkt: 5634.140

For **SIGNAL PROCESSING APPARATUS AND METHODS**

COPENDING RELATED U.S. PATENT APPLICATIONS

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

Listed below are copending U.S. patent applications related to this application.

| <u>Application No.</u> | <u>Filing Date</u> | <u>Atty. Dkt.</u> |
|------------------------|--------------------|-------------------|
| 08/113,329 | 30-Aug-93 | 5634.008 |
| 08/397,371 | 2-March-95 | 5634.017 |
| 08/397,582 | 2-March-95 | 5634.010 |
| 08/397,636 | 2-March-95 | 5634.012 |
| 08/435,757 | 9-May-95 | 5634.036 |
| 08/435,758 | 9-May-95 | 5634.041 |
| 08/437,044 | 9-May-95 | 5634.047 |
| 08/437,045 | 9-May-95 | 5634.042 |
| 08/437,629 | 9-May-95 | 5634.044 |
| 08/437,635 | 9-May-95 | 5634.045 |
| 08/437,791 | 9-May-95 | 5634.040 |
| 08/437,819 | 9-May-95 | 5634.049 |
| 08/437,864 | 9-May-95 | 5634.038 |
| 08/437,887 | 9-May-95 | 5634.037 |
| 08/437,937 | 9-May-95 | 5634.048 |
| 08/438,011 | 9-May-95 | 5634.050 |
| 08/438,206 | 9-May-95 | 5634.039 |

| | | |
|------------|-----------|----------|
| 08/438,216 | 9-May-95 | 5634.046 |
| 08/438,659 | 9-May-95 | 5634.043 |
| 08/439,668 | 15-May-95 | 5634.062 |
| 08/439,670 | 15-May-95 | 5634.081 |
| 08/440,657 | 15-May-95 | 5634.051 |
| 08/440,837 | 15-May-95 | 5634.059 |
| 08/441,027 | 16-May-95 | 5634.053 |
| 08/441,033 | 15-May-95 | 5634.060 |
| 08/441,575 | 15-May-95 | 5634.056 |
| 08/441,577 | 15-May-95 | 5634.080 |
| 08/441,701 | 15-May-95 | 5634.052 |
| 08/441,749 | 16-May-95 | 5634.082 |
| 08/441,821 | 16-May-95 | 5634.085 |
| 08/441,880 | 16-May-95 | 5634.075 |
| 08/441,942 | 16-May-95 | 5634.061 |
| 08/441,996 | 16-May-95 | 5634.086 |
| 08/442,165 | 16-May-95 | 5634.087 |
| 08/442,327 | 16-May-95 | 5634.083 |
| 08/442,335 | 16-May-95 | 5634.088 |
| 08/442,369 | 16-May-95 | 5634.055 |
| 08/442,383 | 16-May-95 | 5634.074 |
| 08/442,505 | 16-May-95 | 5634.084 |
| 08/442,507 | 16-May-95 | 5634.089 |
| 08/444,643 | 19-May-95 | 5634.111 |
| 08/444,756 | 19-May-95 | 5634.107 |
| 08/444,757 | 19-May-95 | 5634.103 |
| 08/444,758 | 19-May-95 | 5634.114 |
| 08/444,781 | 19-May-95 | 5634.110 |
| 08/444,786 | 19-May-95 | 5634.100 |
| 08/444,787 | 19-May-95 | 5634.118 |
| 08/444,788 | 19-May-95 | 5634.109 |
| 08/444,887 | 19-May-95 | 5634.115 |
| 08/445,045 | 19-May-95 | 5634.108 |
| 08/445,054 | 19-May-95 | 5634.101 |
| 08/445,290 | 19-May-95 | 5634.113 |
| 08/445,294 | 19-May-95 | 5634.119 |
| 08/445,296 | 19-May-95 | 5634.105 |
| 08/445,328 | 19-May-95 | 5634.112 |
| 08/446,123 | 19-May-95 | 5634.116 |
| 08/446,124 | 19-May-95 | 5634.117 |
| 08/446,429 | 22-May-95 | 5634.151 |
| 08/446,430 | 22-May-95 | 5634.152 |
| 08/446,431 | 22-May-95 | 5634.150 |
| 08/446,432 | 22-May-95 | 5634.149 |
| 08/446,494 | 22-May-95 | 5634.154 |

| | | |
|------------|-----------|----------|
| 08/446,553 | 19-May-95 | 5634.104 |
| 08/446,579 | 19-May-95 | 5634.106 |
| 08/447,380 | 24-May-95 | 5634.125 |
| 08/447,414 | 23-May-95 | 5634.122 |
| 08/447,415 | 23-May-95 | 5634.129 |
| 08/447,416 | 23-May-95 | 5634.128 |
| 08/447,446 | 23-May-95 | 5634.135 |
| 08/447,447 | 23-May-95 | 5634.140 |
| 08/447,448 | 23-May-95 | 5634.132 |
| 08/447,449 | 23-May-95 | 5634.138 |
| 08/447,496 | 23-May-95 | 5634.121 |
| 08/447,502 | 23-May-95 | 5634.143 |
| 08/447,529 | 24-May-95 | 5634.144 |
| 08/447,611 | 23-May-95 | 5634.137 |
| 08/447,621 | 23-May-95 | 5634.156 |
| 08/447,679 | 23-May-95 | 5634.130 |
| 08/447,711 | 23-May-93 | 5634.153 |
| 08/447,712 | 23-May-95 | 5634.127 |
| 08/447,724 | 23-May-95 | 5634.131 |
| 08/447,726 | 23-May-95 | 5634.159 |
| 08/447,826 | 23-May-95 | 5634.126 |
| 08/447,908 | 23-May-95 | 5634.134 |
| 08/447,938 | 23-May-95 | 5634.133 |
| 08/447,974 | 23-May-95 | 5634.145 |
| 08/447,977 | 23-May-95 | 5634.141 |
| 08/448,099 | 23-May-95 | 5634.158 |
| 08/448,116 | 23-May-95 | 5634.157 |
| 08/448,141 | 23-May-95 | 5634.155 |
| 08/448,143 | 23-May-95 | 5634.120 |
| 08/448,175 | 23-May-95 | 5634.102 |
| 08/448,251 | 23-May-95 | 5634.142 |
| 08/448,309 | 23-May-95 | 5634.139 |
| 08/448,326 | 23-May-95 | 5634.123 |
| 08/448,643 | 24-May-95 | 5634.072 |
| 08/448,644 | 24-May-95 | 5634.163 |
| 08/448,662 | 24-May-95 | 5634.201 |
| 08/448,667 | 24-May-95 | 5634.179 |
| 08/448,794 | 24-May-95 | 5634.203 |
| 08/448,810 | 24-May-95 | 5634.177 |
| 08/448,833 | 24-May-95 | 5634.162 |
| 08/448,915 | 24-May-95 | 5634.069 |
| 08/448,916 | 24-May-95 | 5634.209 |
| 08/448,917 | 24-May-95 | 5634.165 |
| 08/448,976 | 24-May-95 | 5634.161 |
| 08/448,977 | 24-May-95 | 5634.071 |

| | | |
|------------|-----------|----------|
| 08/448,978 | 24-May-95 | 5634.181 |
| 08/448,979 | 24-May-95 | 5634.207 |
| 08/449,097 | 24-May-95 | 5634.208 |
| 08/449,110 | 24-May-95 | 5634.204 |
| 08/449,248 | 24-May-95 | 5634.171 |
| 08/449,263 | 24-May-95 | 5634.172 |
| 08/449,281 | 24-May-95 | 5634.183 |
| 08/449,291 | 24-May-95 | 5634.068 |
| 08/449,302 | 24-May-95 | 5634.147 |
| 08/449,351 | 24-May-95 | 5634.170 |
| 08/449,369 | 24-May-95 | 5634.058 |
| 08/449,411 | 24-May-95 | 5634.180 |
| 08/449,413 | 24-May-95 | 5634.174 |
| 08/449,523 | 24-May-95 | 5634.182 |
| 08/449,530 | 24-May-95 | 5634.124 |
| 08/449,531 | 24-May-95 | 5634.176 |
| 08/449,532 | 24-May-95 | 5634.205 |
| 08/449,652 | 24-May-95 | 5634.146 |
| 08/449,697 | 24-May-95 | 5634.175 |
| 08/449,702 | 24-May-95 | 5634.202 |
| 08/449,717 | 24-May-95 | 5634.067 |
| 08/449,718 | 24-May-95 | 5634.164 |
| 08/449,798 | 24-May-95 | 5634.206 |
| 08/449,800 | 24-May-95 | 5634.184 |
| 08/449,829 | 24-May-95 | 5634.178 |
| 08/449,867 | 24-May-95 | 5634.169 |
| 08/449,901 | 23-May-95 | 5634.136 |
| 08/450,680 | 24-May-95 | 5634.200 |
| 08/451,203 | 26-May-95 | 5634.079 |
| 08/451,377 | 26-May-95 | 5634.070 |
| 08/451,496 | 26-May-95 | 5634.057 |
| 08/451,746 | 26-May-95 | 5634.078 |
| 08/452,395 | 26-May-95 | 5634.065 |
| 08/458,566 | 2-Jun-95 | 5634.230 |
| 08/458,699 | 2-Jun-95 | 5634.247 |
| 08/458,760 | 2-Jun-95 | 5634.217 |
| 08/459,216 | 2-Jun-95 | 5634.218 |
| 08/459,217 | 2-Jun-95 | 5634.231 |
| 08/459,218 | 2-Jun-95 | 5634.256 |
| 08/459,506 | 2-Jun-95 | 5634.224 |
| 08/459,507 | 2-Jun-95 | 5634.232 |
| 08/459,521 | 2-Jun-95 | 5634.233 |
| 08/459,522 | 2-Jun-95 | 5634.238 |
| 08/459,788 | 2-Jun-95 | 5634.243 |
| 08/460,043 | 2-Jun-95 | 5634.215 |

| | | |
|------------|----------|----------|
| 08/460,081 | 2-Jun-95 | 5634.240 |
| 08/460,085 | 2-Jun-95 | 5634.239 |
| 08/460,120 | 2-Jun-95 | 5634.214 |
| 08/460,187 | 2-Jun-95 | 5634.220 |
| 08/460,240 | 2-Jun-95 | 5634.241 |
| 08/460,256 | 2-Jun-95 | 5634.254 |
| 08/460,274 | 2-Jun-95 | 5634.236 |
| 08/460,387 | 2-Jun-95 | 5634.219 |
| 08/460,394 | 2-Jun-95 | 5634.222 |
| 08/460,401 | 2-Jun-95 | 5634.242 |
| 08/460,556 | 2-Jun-95 | 5634.248 |
| 08/460,557 | 2-Jun-95 | 5634.245 |
| 08/460,591 | 2-Jun-95 | 5634.216 |
| 08/460,592 | 2-Jun-95 | 5634.225 |
| 08/460,634 | 2-Jun-95 | 5634.246 |
| 08/460,642 | 2-Jun-95 | 5634.244 |
| 08/460,668 | 2-Jun-95 | 5634.211 |
| 08/460,677 | 2-Jun-95 | 5634.221 |
| 08/460,711 | 2-Jun-95 | 5634.212 |
| 08/460,713 | 2-Jun-95 | 5634.253 |
| 08/460,743 | 2-Jun-95 | 5634.229 |
| 08/460,765 | 2-Jun-95 | 5634.255 |
| 08/460,766 | 2-Jun-95 | 5634.249 |
| 08/460,770 | 2-Jun-95 | 5634.237 |
| 08/460,793 | 2-Jun-95 | 5634.213 |
| 08/460,817 | 2-Jun-95 | 5634.223 |
| 08/466,887 | 6-Jun-95 | 5634.281 |
| 08/466,888 | 6-Jun-95 | 5634.270 |
| 08/466,890 | 6-Jun-95 | 5634.298 |
| 08/466,894 | 6-Jun-95 | 5634.276 |
| 08/467,045 | 6-Jun-95 | 5634.285 |
| 08/467,904 | 6-Jun-95 | 5634.284 |
| 08/468,044 | 6-Jun-95 | 5634.282 |
| 08/468,323 | 6-Jun-95 | 5634.292 |
| 08/468,324 | 6-Jun-95 | 5634.259 |
| 08/468,641 | 6-Jun-95 | 5634.263 |
| 08/468,736 | 6-Jun-95 | 5634.277 |
| 08/468,994 | 6-Jun-95 | 5634.297 |
| 08/469,056 | 6-Jun-95 | 5634.264 |
| 08/469,059 | 6-Jun-95 | 5634.288 |
| 08/469,078 | 6-Jun-95 | 5634.279 |
| 08/469,103 | 6-Jun-95 | 5634.300 |
| 08/469,106 | 6-Jun-95 | 5634.266 |
| 08/469,107 | 6-Jun-95 | 5634.294 |
| 08/469,108 | 6-Jun-95 | 5634.269 |

| | | |
|------------|----------|----------|
| 08/469,109 | 6-Jun-95 | 5634.296 |
| 08/469,355 | 6-Jun-95 | 5634.260 |
| 08/469,496 | 6-Jun-95 | 5634.290 |
| 08/469,517 | 6-Jun-95 | 5634.287 |
| 08/469,612 | 6-Jun-95 | 5634.280 |
| 08/469,623 | 6-Jun-95 | 5634.273 |
| 08/469,624 | 6-Jun-95 | 5634.262 |
| 08/469,626 | 6-Jun-95 | 5634.272 |
| 08/470,051 | 6-Jun-95 | 5634.268 |
| 08/470,052 | 6-Jun-95 | 5634.302 |
| 08/470,053 | 6-Jun-95 | 5634.291 |
| 08/470,054 | 6-Jun-95 | 5634.265 |
| 08/470,236 | 6-Jun-95 | 5634.278 |
| 08/470,447 | 6-Jun-95 | 5634.275 |
| 08/470,448 | 6-Jun-95 | 5634.293 |
| 08/470,476 | 6-Jun-95 | 5634.301 |
| 08/470,570 | 6-Jun-95 | 5634.289 |
| 08/470,571 | 6-Jun-95 | 5634.261 |
| 08/471,024 | 6-Jun-95 | 5634.299 |
| 08/471,191 | 6-Jun-95 | 5634.267 |
| 08/471,238 | 6-Jun-95 | 5634.271 |
| 08/471,239 | 6-Jun-95 | 5634.283 |
| 08/471,240 | 6-Jun-95 | 5634.286 |
| 08/472,066 | 6-Jun-95 | 5634.295 |
| 08/472,399 | 7-Jun-95 | 5634.305 |
| 08/472,462 | 7-Jun-95 | 5634.315 |
| 08/472,980 | 7-Jun-95 | 5634.353 |
| 08/473,213 | 7-Jun-95 | 5634.320 |
| 08/473,224 | 7-Jun-95 | 5634.187 |
| 08/473,484 | 7-Jun-95 | 5634.258 |
| 08/473,927 | 7-Jun-95 | 5634.333 |
| 08/473,996 | 7-Jun-95 | 5634.073 |
| 08/473,997 | 7-Jun-95 | 5634.364 |
| 08/473,998 | 7-Jun-95 | 5634.328 |
| 08/473,999 | 7-Jun-95 | 5634.342 |
| 08/474,119 | 7-Jun-95 | 5634.330 |
| 08/474,139 | 7-Jun-95 | 5634.324 |
| 08/474,145 | 7-Jun-95 | 5634.303 |
| 08/474,146 | 7-Jun-95 | 5634.186 |
| 08/474,147 | 7-Jun-95 | 5634.226 |
| 08/474,496 | 7-Jun-95 | 5634.360 |
| 08/474,674 | 7-Jun-95 | 5634.319 |
| 08/474,963 | 7-Jun-95 | 5634.098 |
| 08/474,964 | 7-Jun-95 | 5634.064 |
| 08/475,341 | 7-Jun-95 | 5634.160 |

| | | |
|------------|----------|----------|
| 08/475,342 | 7-Jun-95 | 5634.234 |
| 08/477,547 | 7-Jun-95 | 5634.329 |
| 08/477,564 | 7-Jun-95 | 5634.340 |
| 08/477,570 | 7-Jun-95 | 5634.335 |
| 08/477,660 | 7-Jun-95 | 5634.090 |
| 08/477,711 | 7-Jun-95 | 5634.312 |
| 08/477,712 | 7-Jun-95 | 5634.173 |
| 08/477,805 | 7-Jun-95 | 5634.197 |
| 08/477,955 | 7-Jun-95 | 5634.188 |
| 08/478,044 | 7-Jun-95 | 5634.334 |
| 08/478,107 | 7-Jun-95 | 5634.309 |
| 08/478,544 | 7-Jun-95 | 5634.306 |
| 08/478,663 | 7-Jun-95 | 5634.099 |
| 08/478,767 | 7-Jun-95 | 5634.316 |
| 08/478,794 | 7-Jun-95 | 5634.347 |
| 08/478,858 | 7-Jun-95 | 5634.351 |
| 08/478,864 | 7-Jun-95 | 5634.167 |
| 08/478,908 | 7-Jun-95 | 5634.313 |
| 08/479,042 | 7-Jun-95 | 5634.352 |
| 08/479,215 | 7-Jun-95 | 5634.358 |
| 08/479,216 | 7-Jun-95 | 5634.341 |
| 08/479,217 | 7-Jun-95 | 5634.093 |
| 08/479,374 | 7-Jun-95 | 5634.148 |
| 08/479,375 | 7-Jun-95 | 5634.326 |
| 08/479,414 | 7-Jun-95 | 5634.359 |
| 08/479,523 | 7-Jun-95 | 5634.365 |
| 08/479,524 | 7-Jun-95 | 5634.054 |
| 08/479,667 | 7-Jun-95 | 5634.192 |
| 08/480,059 | 7-Jun-95 | 5634.063 |
| 08/480,060 | 7-Jun-95 | 5634.227 |
| 08/480,383 | 7-Jun-95 | 5634.349 |
| 08/480,392 | 7-Jun-95 | 5634.310 |
| 08/480,740 | 7-Jun-95 | 5634.343 |
| 08/481,074 | 7-Jun-95 | 5634.190 |
| 08/482,573 | 7-Jun-95 | 5634.096 |
| 08/482,574 | 7-Jun-95 | 5634.210 |
| 08/482,857 | 7-Jun-95 | 5634.311 |
| 08/483,054 | 7-Jun-95 | 5634.195 |
| 08/483,169 | 7-Jun-95 | 5634.338 |
| 08/483,174 | 7-Jun-95 | 5634.251 |
| 08/483,269 | 7-Jun-95 | 5634.307 |
| 08/483,980 | 7-Jun-95 | 5634.066 |
| 08/484,275 | 7-Jun-95 | 5634.323 |
| 08/484,276 | 7-Jun-95 | 5634.092 |
| 08/484,858 | 7-Jun-95 | 5634.362 |

| | | |
|------------|----------|----------|
| 08/484,865 | 7-Jun-95 | 5634.348 |
| 08/485,282 | 7-Jun-95 | 5634.361 |
| 08/485,283 | 7-Jun-95 | 5634.199 |
| 08/485,507 | 7-Jun-95 | 5634.304 |
| 08/485,772 | 7-Jun-95 | 5634.332 |
| 08/485,775 | 7-Jun-95 | 5634.077 |
| 08/486,258 | 7-Jun-95 | 5634.357 |
| 08/486,259 | 7-Jun-95 | 5634.257 |
| 08/486,265 | 7-Jun-95 | 5634.228 |
| 08/486,266 | 7-Jun-95 | 5634.337 |
| 08/486,297 | 7-Jun-95 | 5634.331 |
| 08/487,155 | 7-Jun-95 | 5634.308 |
| 08/487,397 | 7-Jun-95 | 5634.250 |
| 08/487,408 | 7-Jun-95 | 5634.356 |
| 08/487,410 | 7-Jun-95 | 5634.314 |
| 08/487,411 | 7-Jun-95 | 5634.318 |
| 08/487,428 | 7-Jun-95 | 5634.363 |
| 08/487,506 | 7-Jun-95 | 5634.350 |
| 08/487,516 | 7-Jun-95 | 5634.094 |
| 08/487,526 | 7-Jun-95 | 5634.355 |
| 08/487,536 | 7-Jun-95 | 5634.097 |
| 08/487,546 | 7-Jun-95 | 5634.325 |
| 08/487,556 | 7-Jun-95 | 5634.321 |
| 08/487,565 | 7-Jun-95 | 5634.327 |
| 08/487,649 | 7-Jun-95 | 5634.344 |
| 08/487,851 | 7-Jun-95 | 5634.252 |
| 08/487,893 | 7-Jun-95 | 5634.191 |
| 08/487,980 | 7-Jun-95 | 5634.076 |
| 08/487,981 | 7-Jun-95 | 5634.196 |
| 08/487,982 | 7-Jun-95 | 5634.095 |
| 08/487,984 | 7-Jun-95 | 5634.346 |
| 08/488,032 | 7-Jun-95 | 5634.189 |
| 08/488,058 | 7-Jun-95 | 5634.322 |
| 08/488,378 | 7 Jun 95 | 5634.339 |
| 08/488,383 | 7-Jun-95 | 5634.166 |
| 08/488,436 | 7-Jun-95 | 5634.336 |
| 08/488,438 | 7-Jun-95 | 5634.235 |
| 08/488,439 | 7-Jun-95 | 5634.185 |
| 08/488,619 | 7-Jun-95 | 5634.317 |
| 08/488,620 | 7-Jun-95 | 5634.354 |
| 08/498,002 | 7-Jun-95 | 5634.345 |
| 08/511,491 | 6-Jun-95 | 5634.274 |

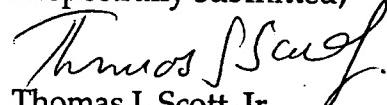
/Chan Park/

05/05/2010

REMARKS

In accordance with the duty of disclosure under 37 C.F.R. § 1.56(a), Applicants herewith submit a reference to all related copending U.S. Patent Applications now pending before the U.S. Patent and Trademark Office.

Respectfully submitted,



Thomas J. Scott, Jr.

Reg. No. 27,836

Attorney for Applicants

Date: December 13, 1995
HOWREY & SIMON
1299 Pennsylvania Avenue, NW
Washington, D.C. 20004
Tel: (202) 383-6614